
Instructions for use / installation of the **boso profil-manager XD Home**

**Powerful software for computer-assisted
blood pressure control and observation of therapy**

Compatible with the following blood pressure meters:

**medilife PC2
medilife PC3**

These instructions for use and installation of the boso profil-manager XD Home apply to version 4.2.0.133 and above. Please refer to the readme.txt file on the installation CD for new information.

The drive letters in these instructions for use are simply examples:

C:\ for the local hard drive

D:\ for the CD/DVD drive

The path data corresponds to a standard single-user installation under the german Windows 7 (32-bit) operating system and may be different in other operating systems or language versions.

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Contents of package

1 installation CD

1 user manual boso profil-manager XD Home

Minimum operating requirements:

- Pentium II or higher
- 512 MB RAM
- Graphics card
- 100 MB free hard disk space
- USB 1.1 interface
- Microsoft Windows® XP

Accuracy of the values displayed

Systole,
diastole,
puls = accuracy of the measuring instruments used

Intended use of a medical device

Software for

- representation of the determined values recorded by boso measuring instruments
- archiving of measured values in a separate database
- printout of the data for transmission to the doctor

1.1 Before installation...

You have chosen boso profil-manager XD Home, a software solution which gives you optimum results with minimum input time. It has been deliberately designed to be operated without the usual menu structure based on individual registries. This is why the user manual also refers to individual windows and program parts as registries.

1.1.1 Data backup

To avoid losing data, you should back up the 'profman.fdb' file from the C:\ProgramData\Boso\profmanXD\ sub-directory at regular intervals.

1.1.2 Operating the software

The program is operated by the mouse.



PC requirements

Computers used to assess data must comply with the latest version of European standard EN 60601-1.

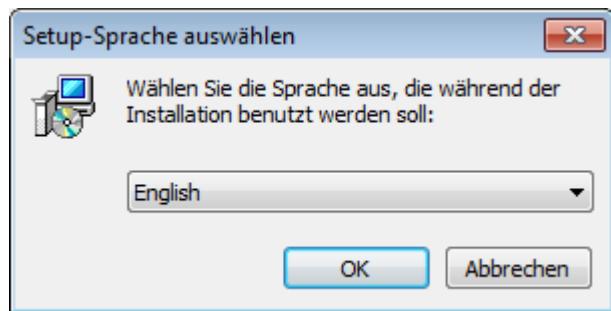
1.2 Installing boso profil-manager XD Home

To install boso profil-manager XD Home, start file D:\ Setup_ProfmanXDHome.exe manually or automatically via the autostart function which runs when you have inserted the CD.



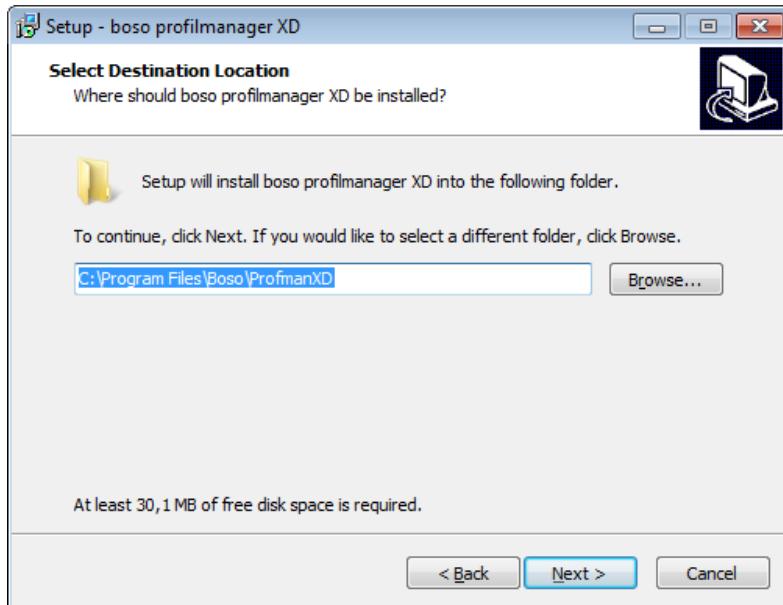
Make sure that you have administrator rights when installing the program (if in doubt, start the "Setup_ProfmanXDHome.exe" program with the right mouse button, "execute as administrator").

Select your preferred language for installation (screenshot in German):

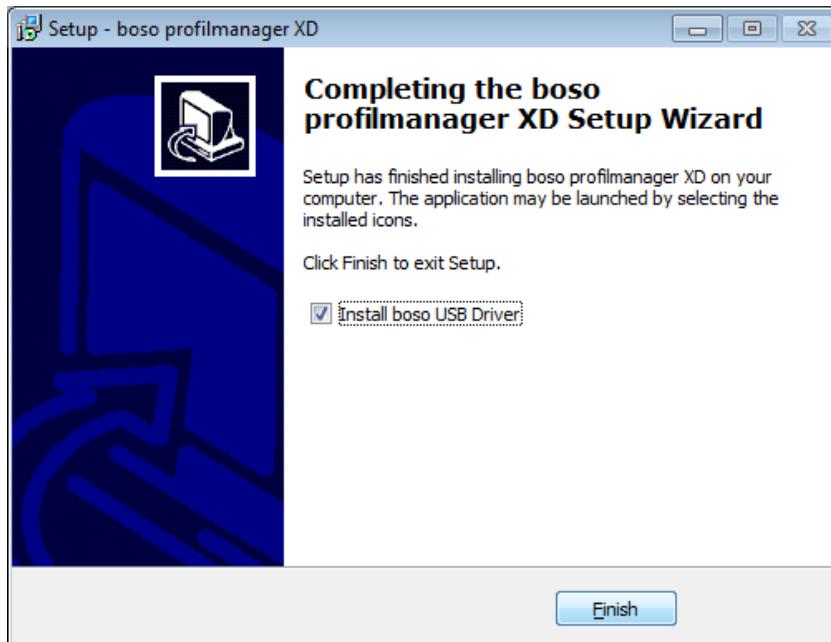


The available languages are German, English and Hungarian.

You can change the target folder for installation individually, but in most cases the default folder is used unchanged:



At the end of installation, tick the “Install boso USB Driver” checkbox to install the USB driver needed for the PC connection cable.

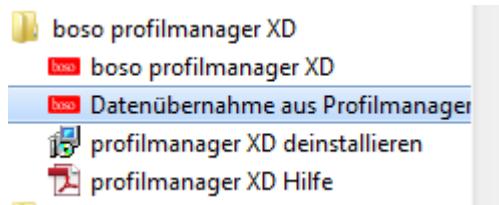


Once you have successfully installed the single-user version of boso profil-manager XD Home, click on the “Close” button to close the installation screen.

1.3 Converting data from boso profil-manager 3

Use the Konverter.exe program to convert existing data from earlier Firebird databases.

Launch the program either via Windows Explorer from the directory path C:\Programme\Boso\ProfmanXD\ or via the Windows start button, selecting the program “Transfer data from boso profil-manager 3” under the “boso profil-manager XD Home” program group (file path in German)



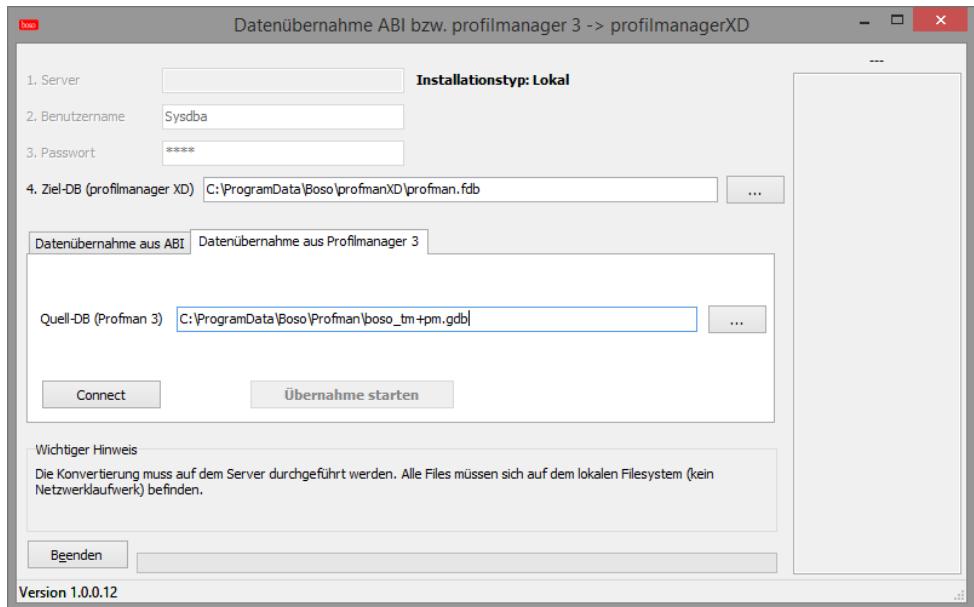
The databases to be converted must be on the local system. Conversion via the network is not possible.

Enter a username and password to register with the Firebird database server. The default username is “sysdba” and the default password is “masterkey”.

Select the storage location for the profil-manager XD Home file in the “Target DB (profil-manager XD Home)” field.

Select the storage location of the database you want to convert (profil-manager 3). Click on the “Connect” button to connect to the source database.

Once you have established a connection with the source database, start transferring data by clicking on the button of the same name (“Start transfer”) (screenshot in German).

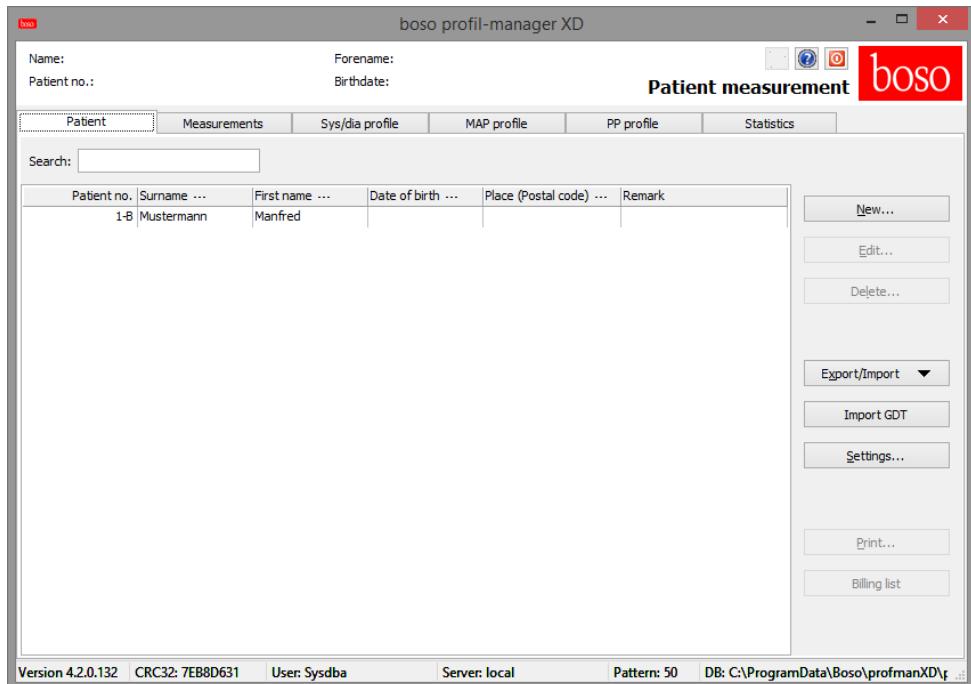


1.4 Installing the USB connection cable

If the USB driver was pre-installed during installation (this is normally the case), you simply need to plug the USB connection cable provided into a free USB port. The cable is then automatically recognised and installed.

If the driver was not pre-installed, you must execute the file dpinst_32bit.exe (present after installation in the directory C:\Programme\Boso\profmanXD\ftdi\) as administrator and then plug the USB cable into a free USB port.

2. Start



Accessing the help function

Press the F1 key or  button to call up these and other instructions for use in PDF format at any time.

2.1 Patient registry

Click on a patient to select him or her.

Patients can be sorted by clicking on the header of the relevant column.

Use the “Restore column order” function to go back to the original sorting by patient number. To do this, right-click in the header row of the patient table.

You can search by name via the “Search” function.

2.1.1 “New...” button

This sets up a new patient. The name and patient number fields must be completed. The system will suggest a patient number, but you can change this manually.

2.1.1 “Modify...” button

This alters an existing patient’s personal data.

2.1.1 “Delete...” button

This deletes a patient.



This process is irreversible: all data (including measurements from all parts of the application) are deleted and cannot be recovered.

2.1.4 “Export/Import” button

2.1.4.1 “Export Excel” exports data for the currently selected patient in Excel-readable .xls format. You can choose whatever file name and storage location you like.

2.1.4.2 “Export patient (XML)” exports data for the currently selected patient in profil-manager XD Home-readable .xml format.

2.1.4.3 "Import Patient (XML)" imports data for a selected patient.

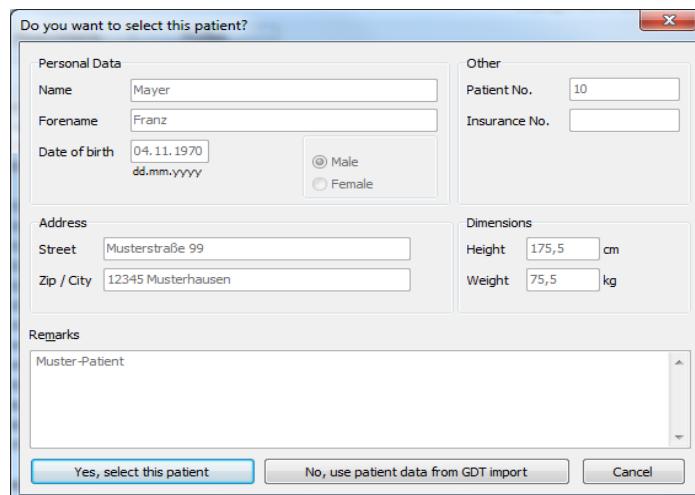
The following rules apply to 2.1.4.2 and 2.1.4.3:

The transfer path from the transfer file settings is used for incorporation into the clinic's data processing system (see next chapter, "Settings..." button)

The file name is made up of the active application and the patient number.
For example, "medicus_10.xml" stands for patient data for the patient with patient number 10.

2.1.5 Import GDT

The GDT-import file, if available, is read and the included patient is selected or created. If a patient with the imported patient number already exists, the following screen appears.



The button "Yes, select this patient" selects the indicated patient.



With the button "No, use patient data from GDT import" all existing data will be assigned to the patient from the GDT import file.

2.1.6 “Settings” button

The settings are explained in the sections dealing with particular applications (chapters 3 to 5) as they are application-specific.

2.1.7 “Print...” button

Patient data is presented on screen (preview), printed out on the printer selected under “Setup”, and/or in the configured PDF file.

The Windows standard printer is the default for print-outs.

If you selected “PDF file” in the printer settings, a PDF file will be created. The name of this PDF file is pmXD_pat#.pdf

Where

pat#=patient number

3. "Patient measurement" application

3.1 "Patient" registry

see section "2.1 Patient registry, for all applications"

See chapter 3.7 for "Settings" button.

3.2 "Measurements" registry

Date	SYS	DIA	PUL	MAP	PP	Arr.	Exclude	Remark
1 Mi, 06.04.2005 - 18:26	144	75	65	98	69		<input type="checkbox"/>	
2 Do, 07.04.2005 - 08:32	159	88	68	112	71		<input type="checkbox"/>	
3 Do, 07.04.2005 - 18:37	153	92	67	112	61		<input type="checkbox"/>	
4 Fr, 08.04.2005 - 08:44	164	76	72	105	88		<input type="checkbox"/>	
5 Fr, 08.04.2005 - 18:49	152	87	68	109	65		<input type="checkbox"/>	
6 Sa, 09.04.2005 - 08:54	176	87	67	117	89		<input type="checkbox"/>	
7 Sa, 09.04.2005 - 18:59	160	99	67	119	61		<input type="checkbox"/>	
8 So, 10.04.2005 - 08:04	146	80	68	102	66		<input type="checkbox"/>	
9 So, 10.04.2005 - 18:09	153	82	66	106	71		<input type="checkbox"/>	
10 Mo, 11.04.2005 - 08:16	156	91	61	113	65		<input type="checkbox"/>	
11 Mo, 11.04.2005 - 18:20	160	84	65	109	76		<input type="checkbox"/>	
12 Di, 12.04.2005 - 08:28	151	88	60	109	63		<input type="checkbox"/>	
13 Di, 12.04.2005 - 18:34	152	81	64	105	71		<input type="checkbox"/>	
14 Mi, 13.04.2005 - 08:39	152	81	65	105	71		<input type="checkbox"/>	
15 Mi, 13.04.2005 - 18:46	177	86	62	116	91		<input type="checkbox"/>	
16 Do, 14.04.2005 - 08:51	161	89	60	113	72		<input type="checkbox"/>	
17 Do, 14.04.2005 - 18:57	163	86	70	112	77		<input type="checkbox"/>	
18 Fr, 15.04.2005 - 08:02	174	92	67	119	82		<input type="checkbox"/>	
19 Fr, 15.04.2005 - 18:07	166	96	71	119	70		<input type="checkbox"/>	
20 Sa, 16.04.2005 - 08:12	164	91	64	115	73		<input type="checkbox"/>	
21 Sa, 16.04.2005 - 18:17	148	91	70	110	57		<input type="checkbox"/>	
22 So, 17.04.2005 - 08:22	138	91	70	107	47		<input type="checkbox"/>	

All measurements that have been read in to date for the selected patient are displayed here. Both the period and the blood pressure meter with which the series of measurements was carried out are displayed.

Date	SYS	DIA	PUL	MAP	PP	Arr.	Exclude	Remark
1 Mi, 06.04.2005 - 18:26	144	75	65	98	69		<input type="checkbox"/>	Test
2 Do, 07.04.2005 - 08:32	159	88	68	112	71		<input type="checkbox"/>	
3 Do, 07.04.2005 - 18:37	153	92	67	112	61		<input type="checkbox"/>	
4 Fr, 08.04.2005 - 08:44	164	76	72	105	88		<input type="checkbox"/>	
5 Fr, 08.04.2005 - 18:49	152	87	68	109	65		<input type="checkbox"/>	
6 Sa, 09.04.2005 - 08:54	176	87	67	117	89		<input type="checkbox"/>	
7 Sa, 09.04.2005 - 18:59	160	99	67	119	61		<input type="checkbox"/>	
8 So, 10.04.2005 - 08:04	146	80	68	102	66		<input type="checkbox"/>	
9 So, 10.04.2005 - 18:09	153	82	66	106	71		<input type="checkbox"/>	
10 Mo, 11.04.2005 - 08:16	156	91	61	113	65		<input type="checkbox"/>	
11 Mo, 11.04.2005 - 18:20	160	84	65	109	76		<input type="checkbox"/>	
12 Di, 12.04.2005 - 08:28	151	88	60	109	63		<input type="checkbox"/>	
13 Di, 12.04.2005 - 18:34	152	81	64	105	71		<input type="checkbox"/>	

1 2 3 4 5 6 7 8 9 10

The column content is as follows:

1: serial numbers of measurements

2: date and time of measurement

3: SYS = systolic blood pressure

4: DIA = diastolic blood pressure

5: PUL = pulse

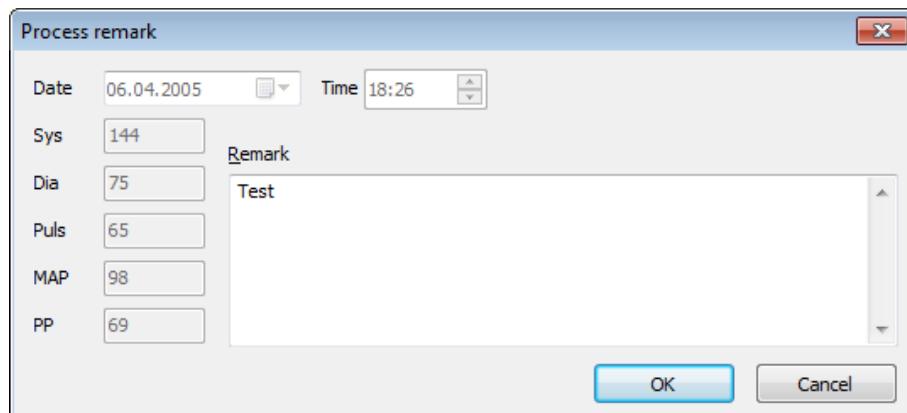
6: MAP = mean arterial blood pressure, calculated as DIA + 1/3 pulse pressure

7: PP = pulse pressure (SYS - DIA)

8: Arr. = indication of arrhythmia

9: Exclude = if you highlight this, the measurement will not be taken into account for assessment in the profile and statistics

10: Remark. Double-click in the measurement line to add a remark to a measurement. This opens the remark input field:



3.2.1 “Delete period” button

This irrevocably deletes a complete set of readings.

3.2.2 “Export GDT” button

This generates the GDT export file manually. Only available if the GDT import of the active patient has already been performed.

3.2.3 “Manual data” button

Additional readings can be added to the active set of readings here.

3.2.4 “Print...” button

This prints out the list of readings.

If you selected “PDF file” in the printer settings (chapter 3.7.3), a PDF file will be created. The name of this PDF file is medi_pat#_YYYYMMDD_m.pdf

where

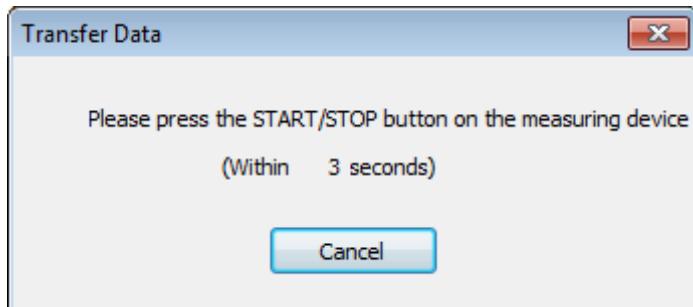
pat#=patient number

YYYYMMDD = date of measurement

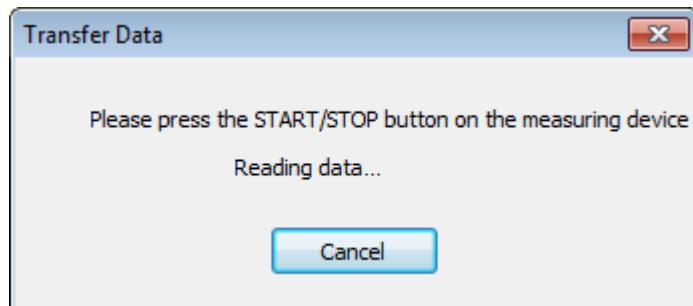
m = measurement reference letter

3.2.5 "Transfer data" button

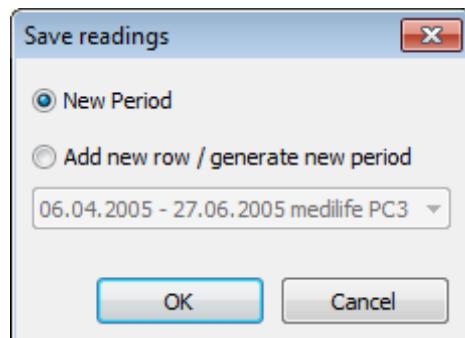
Connect the meter to the PC.



Once you have clicked on the "Transfer data" button, the START/STOP button on the blood pressure meter must be pressed within 6 seconds in order to transfer data from the blood pressure meter. Measurements will be transferred from the meter which is connected.



Once data has been successfully transferred, you can set up a new period or assign the data to an existing period.



3.2.6 “Interval limits” button

The limits for morning and afternoon measurements can be defined here. The default setting is midnight to 11.59 a.m. for morning and noon to 11.59 p.m. for afternoon.

3.2.7 “All, Morning, Afternoon” selection

You can restrict the reading selection to only morning measurements or only afternoon measurements here.

3.2.8 “Period” selection



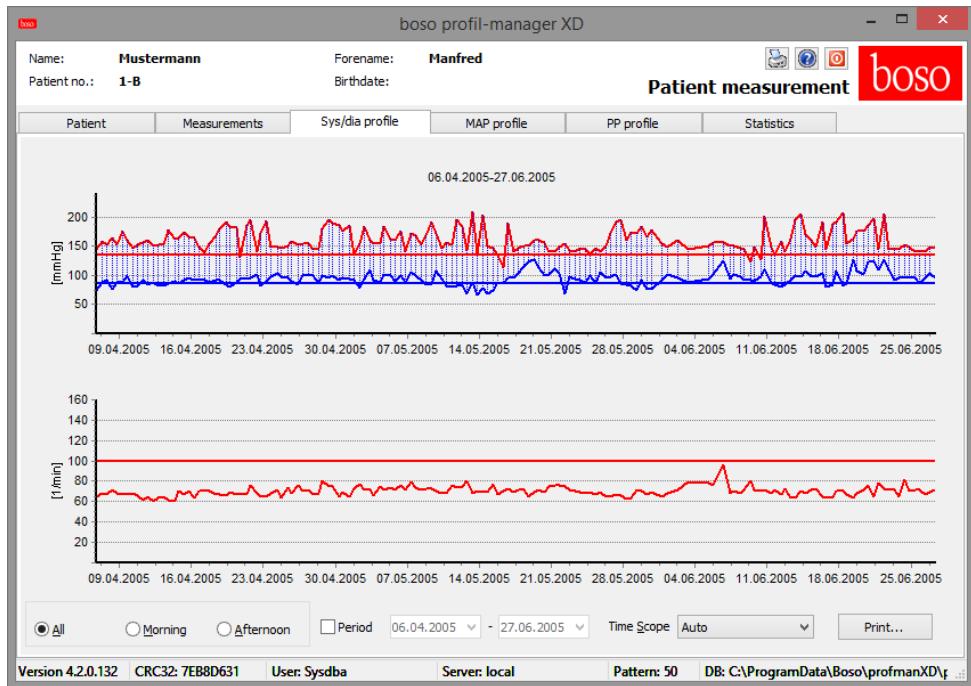
You can select a specific period for assessment among all the readings by selecting a period.

Click on the arrow symbol in the data fields to open a calendar, making selection easier.

Click on the month or year to change it immediately.



3.3 "Sys/dia profile" registry



This displays the blood pressure trend.

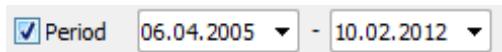
The pulse trend can be hidden or displayed by the **Ctrl+P** key combination.

Move the cursor over the measurement to obtain more information about individual readings. The date, time and reading are displayed in the top left-hand corner of the diagram.

3.3.1 "All, Morning, Afternoon" selection

You can restrict the reading selection to only morning measurements or only afternoon measurements here.

3.3.2 "Period" selection



You can select a specific period for assessment among all the readings by selecting a period.

Click on the arrow symbol in the data fields to open a calendar, making selection easier.

Click on the month or year to change it immediately.



3.3.3 "Time scope" selection field

This allows you to select the period for which measurements are displayed. You have the choice of Auto, Day, Week, Month, Quarter or Year.

"Auto" is the default setting. In this setting, the time scope is scaled from the first measurement to the last.

Right-clicking in the diagram allows you to shift the graph horizontally with the mouse.

3.3.4 "Print..." button

This produces a print-out of the SYS/DIA profile, pulse profile and statistics. If you selected "PDF file" in the printer settings (chapter 3.7.3), a PDF file will be created. The name of this PDF file is medi_pat#_YYYYMMDD_sys.pdf

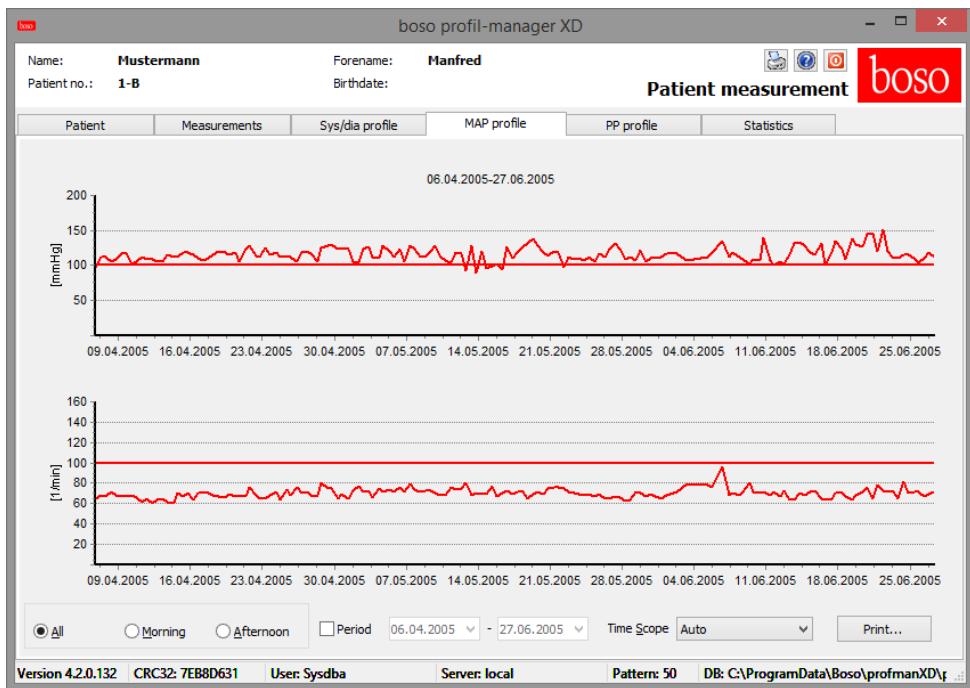
where

pat#=patient number

YYYYMMDD = date of measurement

sys = SYS/DIA reference letter

3.4 “MAP profile” registry



This displays the trend for the calculated mean arterial blood pressure. (MAP = diastole DIA + 1/3 pulse pressure PP).

The pulse trend can be hidden or displayed by the **Ctrl+P** key combination.

Move the cursor over the measurement to obtain more information about individual readings. The date, time and reading are displayed in the top left-hand corner of the diagram.

3.4.1 “All, Morning, Afternoon” selection

You can restrict the reading selection to only morning measurements or only afternoon measurements here.

3.4.2 "Period" selection



You can select a specific period for assessment among all the readings by selecting a period.

Click on the arrow symbol in the data fields to open a calendar, making selection easier.

Click on the month or year to change it immediately.

Juni 2012						
Mo	Di	Mi	Do	Fr	Sa	So
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

3.4.3 "Time scope" selection field

This allows you to select the period for which measurements are displayed. You have the choice of Auto, Day, Week, Month, Quarter or Year.

"Auto" is the default setting. In this setting, the time scope is scaled from the first measurement to the last.

Right-clicking in the diagram allows you to shift the graph horizontally with the mouse.

3.4.4 "Print..." button

This produces a print-out of the MAP profile, pulse profile and statistics.

If you selected "PDF file" in the printer settings (chapter 3.7.3), a PDF file will be created. The name of this PDF file is medi_pat#_YYYYMMDD_map.pdf

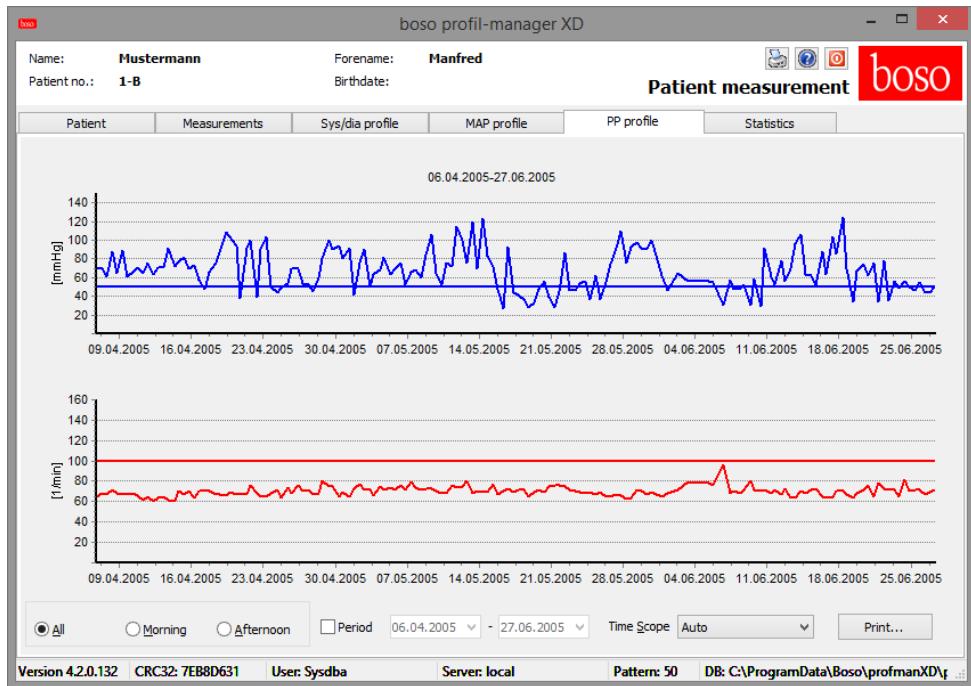
where

pat#=patient number

YYYYMMDD = date of measurement

map = MAP reference letter

3.5 “PP profile” registry



This displays the trend for the calculated pulse pressure. (PP = SYS-DIA).

The pulse trend can be hidden or displayed by the **Ctrl+P** key combination.

Move the cursor over the measurement to obtain more information about individual readings. The date, time and reading are displayed in the top left-hand corner of the diagram.

3.5.1 “All, Morning, Afternoon” selection

You can restrict the reading selection to only morning measurements or only afternoon measurements here.

3.5.2 "Period" selection



You can select a specific period for assessment among all the readings by selecting a period.

Click on the arrow symbol in the data fields to open a calendar, making selection easier.

Click on the month or year to change it immediately.



3.5.3 "Time scope" selection field

This allows you to select the period for which measurements are displayed. You have the choice of Auto, Day, Week, Month, Quarter or Year.

"Auto" is the default setting. In this setting, the time scope is scaled from the first measurement to the last.

Right-clicking in the diagram allows you to shift the graph horizontally with the mouse.

3.5.4 "Print..." button

This produces a print-out of the pulse pressure profile, pulse profile and statistics.

If you selected "PDF file" in the printer settings (chapter 3.7.3), a PDF file will be created. The name of this PDF file is medi_pat#_YYYYMMDD_pp.pdf

where

pat#=patient number

YYYYMMDD = date of measurement

pp = pulse pressure reference letter

3.6 "Statistics" registry

boso profil-manager XD

Name: **Mustermann** Forename: **Manfred**
Patient no.: **1-B** Birthdate:

Patient Measurements Sys/dia profile MAP profile PP profile Statistics

Patient measurement **boso**

Patient measurement statistics (06.04.2005-27.06.2005)

Total (00:00-24:00)
Readings: 157 - Arrhythmias recognized: 1

	Min	Average	Max	SD	> Limit
Sys [mmHg]	113	160,8	208	19,5	96,2%
Dia [mmHg]	67	93,5	127	11,5	77,7%
Puls [1/min]	60	70,1	96	4,8	0,0%
MAP [mmHg]	90	115,9	152	10,5	95,5%
PP [mmHg]	27	67,3	125	21,7	75,8%

Morning (00:00-12:00)
Readings: 79 - Arrhythmias recognized: 1

	Min	Average	Max	SD	> Limit
Sys [mmHg]	113	162,0	208	20,8	96,2%
Dia [mmHg]	69	93,0	127	11,5	77,7%
Puls [1/min]	60	69,9	82	4,7	0,0%
MAP [mmHg]	95	116,0	152	10,6	96,2%
PP [mmHg]	27	69,0	125	23,2	78,5%

Difference morning/afternoon

Sys	1,5%	Fall in the afternoon
Dia	1,0%	Rise in the afternoon
Puls	0,4%	Rise in the afternoon
MAP	0,2%	Fall in the afternoon
PP	4,9%	Fall in the afternoon

Afternoon (12:00-00:00)
Readings: 78 - Arrhythmias recognized: 0

	Min	Average	Max	SD	> Limit
Sys [mmHg]	131	159,6	201	18,2	96,2%
Dia [mmHg]	67	93,9	125	11,6	78,2%
Puls [1/min]	62	70,2	96	4,9	0,0%
MAP [mmHg]	90	115,8	144	10,5	94,9%
PP [mmHg]	28	65,6	115	20,2	73,1%

Print...

Version 4.2.0.132 | CRC32: 7EB8D631 | User: Sysdba | Server: local | Pattern: 50 | DB: C:\ProgramData\Boso\profmanXD\|...

Measurements for the complete period, morning and afternoon periods are assessed separately.

The total number of readings in the individual periods, and the number of arrhythmias recognised, are displayed.

The following values are displayed in the individual columns:

Min: smallest value in the interval in question

Mean: arithmetic mean in the interval in question

Max: largest value in the interval in question

SD: standard deviation in the interval in question

> Limit: percentage above the limits that have been set

The percentage increase/decrease in the afternoon is displayed.

3.6.1 “Print...” button

This produces a print-out of the SYS/DIA profile, pulse profile and statistics.

If you selected “PDF file” in the printer settings (chapter 3.7.3), a PDF file will be created. The name of this PDF file is medi_pat#_YYYYMMDD_sys.pdf

where

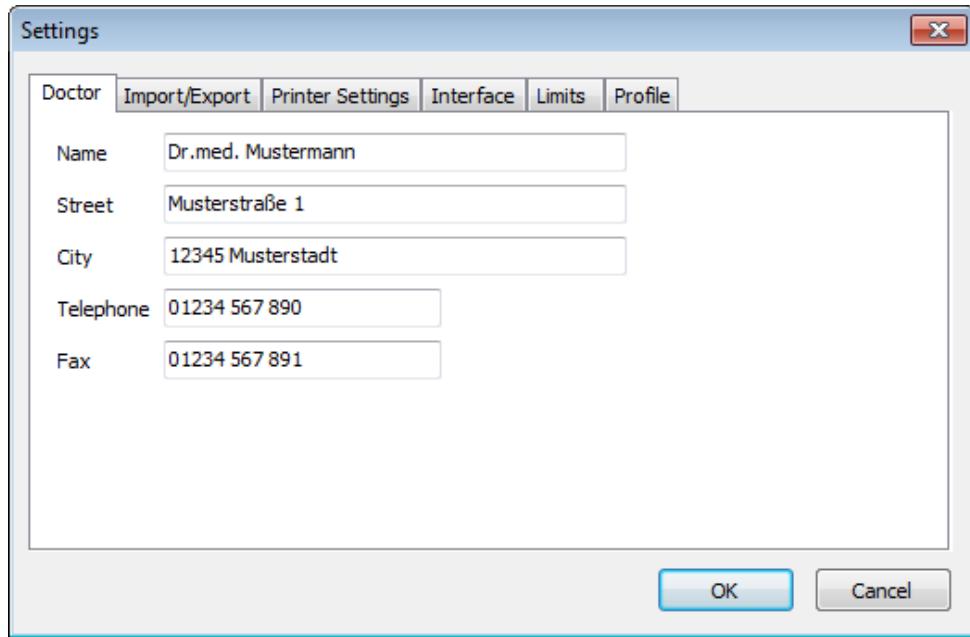
pat#=patient number

YYYYMMDD = date of measurement

sys = SYS/DIA reference letter

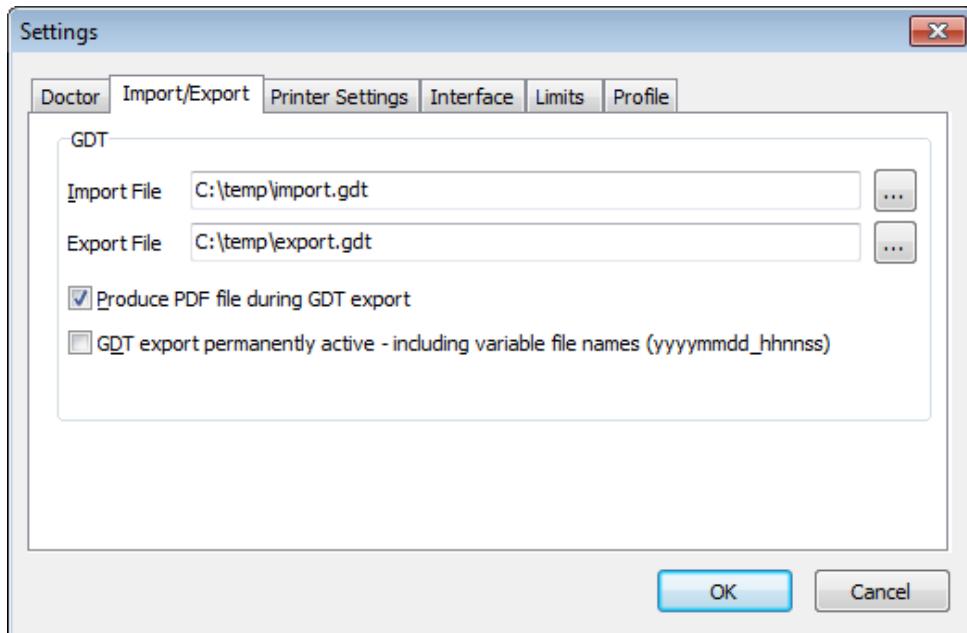
3.7 "Settings..." button in "Patient" registry

3.7.1 "Doctor" sub-registry



The personal details of the doctor treating the patient are entered in the "Doctor" registry and used to produce the footer in the print-out.

3.7.2 "Import/Export" sub-registry



If you are using a clinic data processing system that supports the GDT interface, this is where the path and file names for export and import files are set.

You have direct access to the Windows directory structure via the buttons next to the input fields for import and export files.

For example: c:\prax_ed\import.gdt
Import file = clinic DP system export file
Export file = clinic DP system import file

GDT import takes place automatically when you start the program, or manually by clicking the "Export/Import -> Import GDT" button if a valid GDT import file is present in the relevant directory.

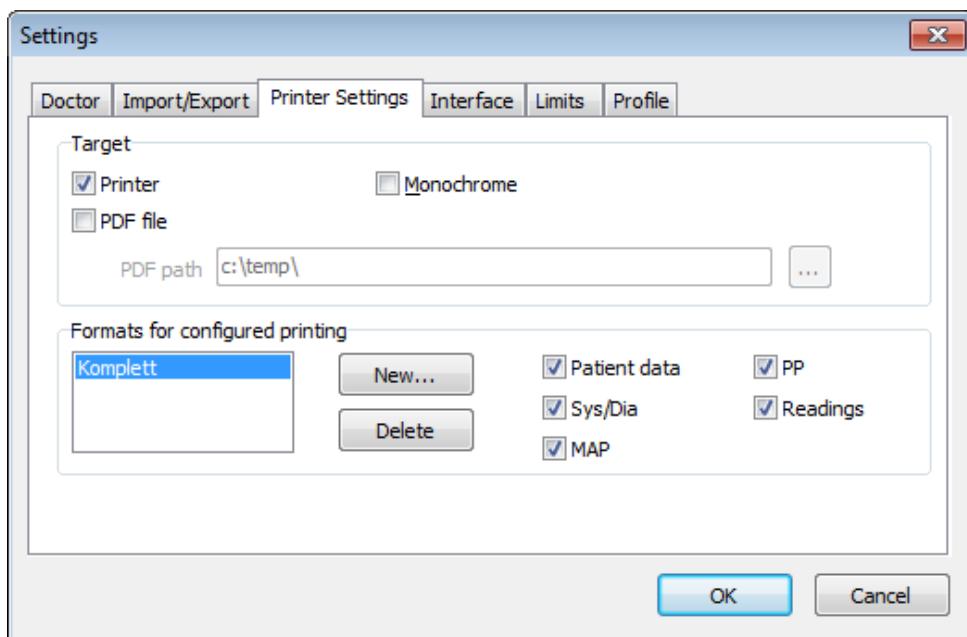
GDT export takes place only if the patient being imported from the clinic DP system is active. Export takes place automatically when the program is closed down (if measurements have been read in from the device during the current program session) or can be performed manually at any time by clicking the "Export GDT" button in the "Measurements" registry.



Data export is deactivated if another patient has been selected after automatic import. It is reactivated when the first patient is reselected. Data export is also deactivated if no import has first taken place.

Further informations to the available options "Produce PDF file during GDT-export" and "GDT export permanently active" see 3.4.2 .

3.7.3 “Printer settings” sub-registry



In the “Printer settings” registry you decide whether the print-out should be produced in paper form, as a screen print and/or as a PDF document, once the relevant [Print...] buttons have been clicked while the program is running.

If you select “Printer”, then the “Output Options” dialogue appears when you click on the [Print...] buttons while the program is running. You can choose either a print output (“Printer”) or a screen view (“Preview”). The “File” function has no significance here.

If you select “PDF file”, a PDF file is produced. The name of this PDF file is created in different ways depending on the application, and this process is described in more detail in the individual applications.

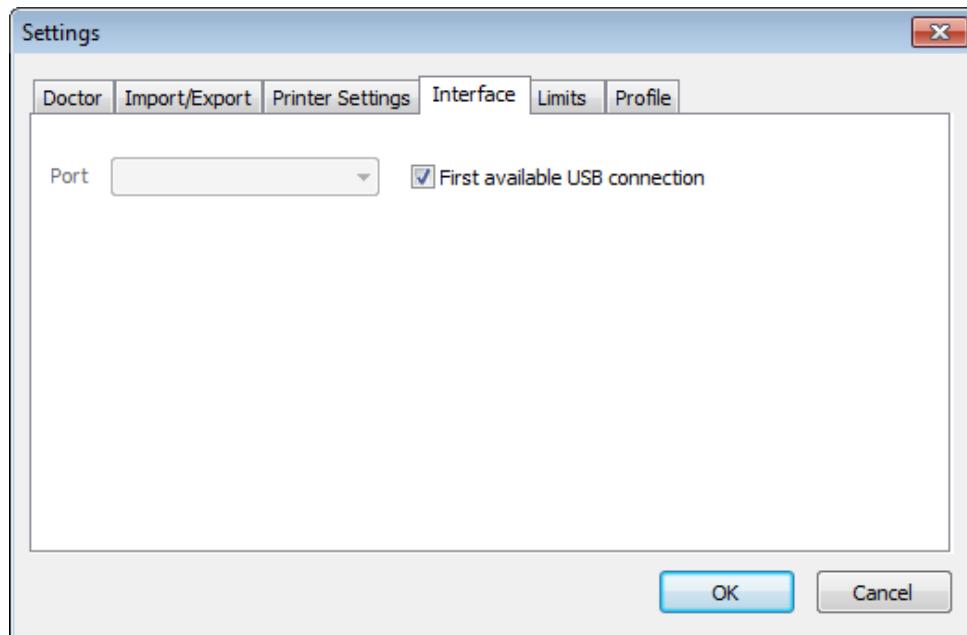


You must select at least one medium: “Printer” or “PDF file”.

If you select the “monochrome” option, the print will be in black and white. If you press the “Configured print-out” printer symbol, the print-out format configured here will be used and only the selected pages will be printed.



3.7.4 “Interface” sub-registry



If the “First available USB port” option is active, the first FTDI USB port under Windows will be used to transfer data. If more than one FTDI USB port is installed, disconnect the ports that are not needed from the computer, or deactivate the option.

If the “First available USB port” option is not active, the serial (COM) interface or USB port selected in the port list will be used for data transfer.

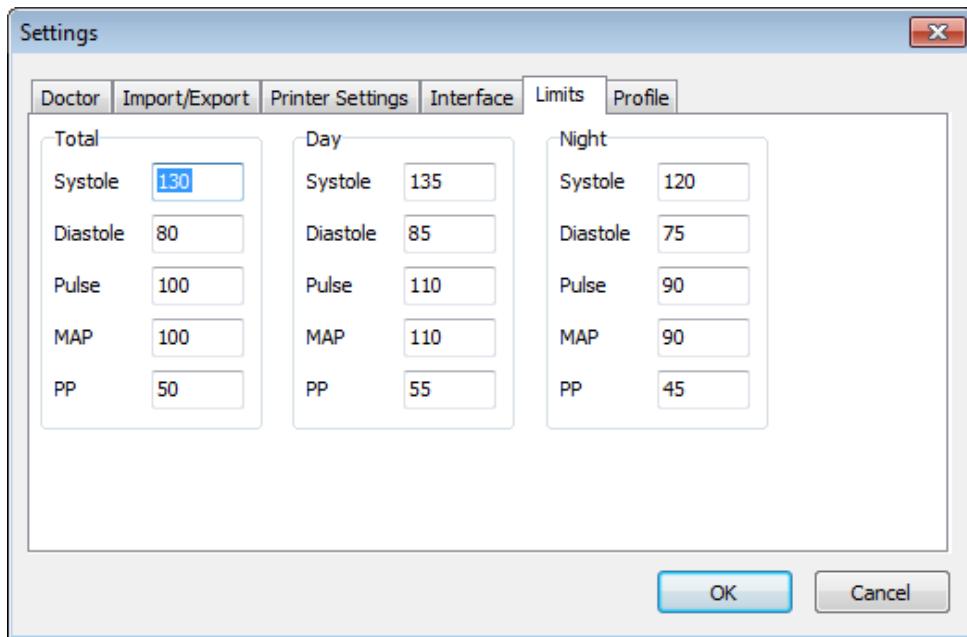
3.7.5 “Limits” sub-registry

Settings

Doctor Import/Export Printer Settings Interface Limits Profile

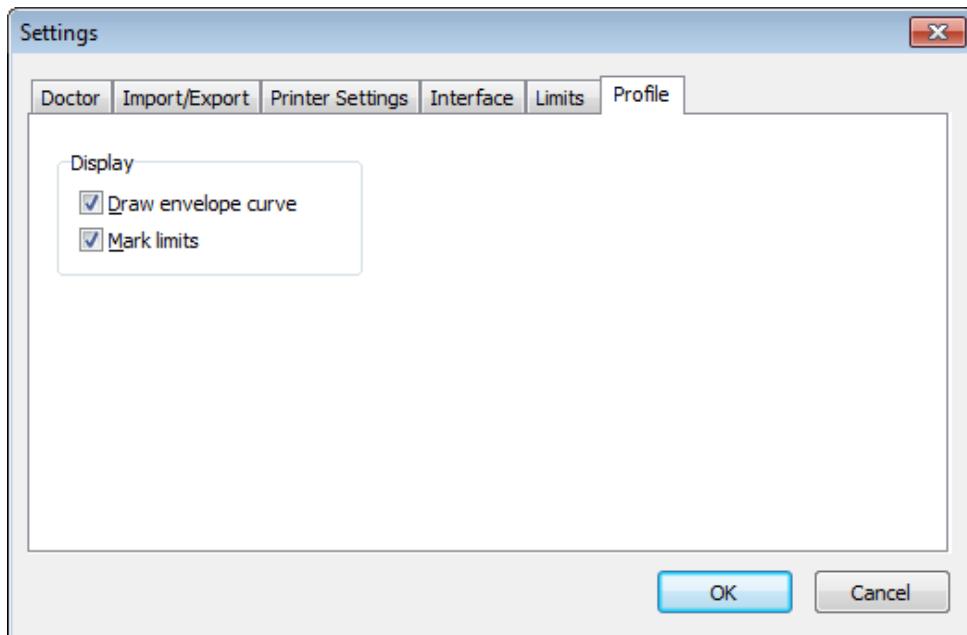
Total		Day		Night	
Systole	130	Systole	135	Systole	120
Diastole	80	Diastole	85	Diastole	75
Pulse	100	Pulse	110	Pulse	90
MAP	100	MAP	110	MAP	90
PP	50	PP	55	PP	45

OK Cancel



The limits for the individual periods can be set in order to allow customised assessment. The limit settings for morning and afternoon are based on the morning and afternoon interval periods.

3.7.6 "Profile" sub-registry



In the profile displays ("Sys/Dia, MAP, PP profile" registry), an envelope curve (line connecting the individual measurements) is normally drawn, with the limits shown as a horizontal line.

Both the envelope curve and the limit lines can be hidden.

4. Warranty provisions

Irrespective of statutory warranty rights, boso guarantees the software data carrier to be free from material and processing defects for 90 days from the date of purchase.

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- the customer/purchaser notifies boso of the defect in writing within 90 days of the date of purchase

or

- the customer/purchaser returns the defective data carrier to the dealer, or direct to boso at the address below, within 90 days:

boso
BOSCH + SOHN GmbH u. Co. KG
Bahnhofstr. 64
72417 Jungingen
Germany

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6. Explanation of icons



Read instruction manual



Year of manufacture



Manufacturer



Important advice

Appendix A - Extract from GDT record description

The record types and their field identifiers needed to create the GDT interface of this software are described below:

Record type 6302 "Request new examination"

Field 8000: record identification
8100: record length
8315: GDT ID of recipient
8316: GDT ID of sender
8410: Testident (BDM00: shortcut patient measurement)
9218: GDT version number
3000: patient number
3101: patient's surname
3102: patient's first name
3103: patient's date of birth
3105: insurance number
3106: patient's address (town)
3107: patient's address (street)
3110: patient's gender (1 = male, 2 = female)
3622: patient's height (cm)
3623: patient's weight (kg)

Record type 6310 "Transmit data from examination"

Field 8000: record identification
8100: record length
8315: GDT ID of recipient
8316: GDT ID of sender
9218: GDT version number
3000: patient number / patient identification
8402: Map for a particular device and process
6200: Date of examination
6228: Results table text, formatted
6302: File archiving identifier
6303: File format
6304: File content
6305: File reference



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